

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
9 September 2005 (09.09.2005)

PCT

(10) International Publication Number
WO 2005/082546 A1

(51) International Patent Classification⁷: **B05B 7/06**,
7/04, A62C 31/02

(21) International Application Number:
PCT/GB2005/000720

(22) International Filing Date: 25 February 2005 (25.02.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

0404230.5	26 February 2004 (26.02.2004)	GB
0405363.3	10 March 2004 (10.03.2004)	GB
0406690.8	24 March 2004 (24.03.2004)	GB
0407090.0	30 March 2004 (30.03.2004)	GB
0409620.2	30 April 2004 (30.04.2004)	GB
0410518.5	11 May 2004 (11.05.2004)	GB
0500580.6	12 January 2005 (12.01.2005)	GB

(71) Applicant (for all designated States except US): **PUR-SUIT DYNAMICS PLC** [GB/GB]; Unit 1, Anglian Business Park, Orchard Road, Royston, Hertfordshire SG8 5TW (GB).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **FENTON, Marcus, Brian, Mayhall** [GB/GB]; 2 Bushmead Road, Eaton Socon, St Neots, Cambridgeshire PE19 8BP (GB).
HEATHCOTE, John, Gervase, Mark [GB/GB]; Unit

1 Anglian Business Park, Orchard Road, Hertfordshire SG8 5TW (GB). **WALLIS, Alexander, Guy** [GB/GB]; 11 Elm Tree Cottages, Water End Road, Potten End, Berkhamstead HP4 2SH (GB).

(74) Agent: **MURGITROYD & COMPANY**; Scotland House, 165-169 Scotland Street, Glasgow G5 8PL (GB).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

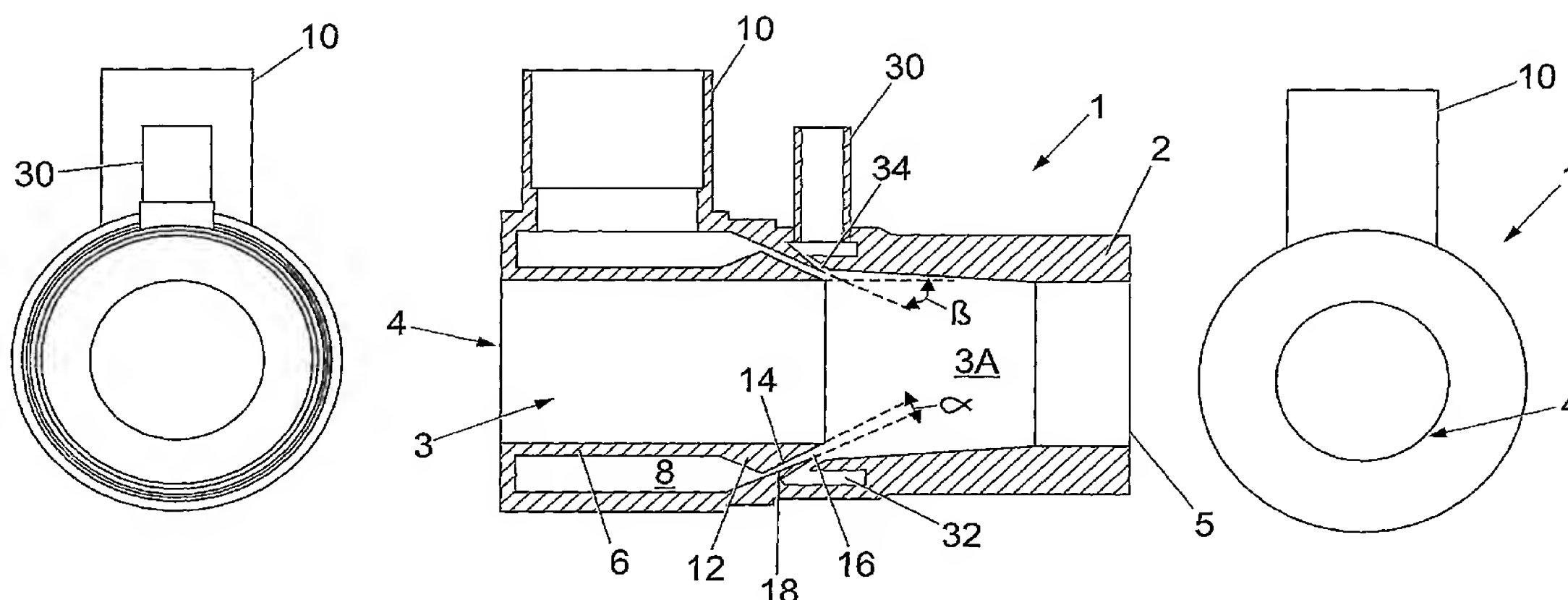
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

[Continued on next page]

(54) Title: METHOD AND APPARATUS FOR GENERATING A MIST



(57) Abstract: Apparatus for generating a mist comprising a conduit having a mixing chamber and an exit; a transport nozzle in fluid communication with the said conduit, the transport nozzle being adapted to introduce a transport fluid into the mixing chamber; a working nozzle positioned adjacent the transport nozzle intermediate the transport nozzle and the exit, the working nozzle being adapted to introduce a working fluid into the mixing chamber; the transport and working nozzles having an angular orientation and internal geometry such that in use interaction of the transport fluid and working fluid in the mixing chamber causes the working fluid to atomise and form a dispersed vapour/droplet flow regime, which is discharged as a mist from the exit, the mist comprising working fluid droplets having a substantially uniform size.

WO 2005/082546 A1



For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.